

# INTERNATIONAL SEARCH REPORT

national Application No  
T/GB 03/05216

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F17D5/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F17D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 547 301 A (FFOOKS ROGER CAMBRIDGE) 15 December 1970 (1970-12-15) the whole document	1, 14, 15
A	-----	2-13
X	US 4 079 689 A (LLORENTE D TOMAS VELASCO) 21 March 1978 (1978-03-21) the whole document	1, 7, 14, 15
X	FR 2 710 310 A (TECHNIGAZ STE NOUVELLE) 31 March 1995 (1995-03-31) the whole document	1, 14, 15
A	-----	
A	US 4 288 654 A (BLOM HANS ET AL) 8 September 1981 (1981-09-08)	
A	-----	
A	US 3 410 313 A (MARTIN JOSEPH L) 12 November 1968 (1968-11-12)	
	-----	
	- / - -	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

'A' document defining the general state of the art which is not considered to be of particular relevance

'E' earlier document but published on or after the international filing date

'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

'O' document referring to an oral disclosure, use, exhibition or other means

'P' document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*Z\* document member of the same patent family

Date of the actual completion of the international search

20 July 2004

Date of mailing of the international search report

27/07/2004

Name and mailing address of the ISA  
European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 eponl,  
Fax: (+31-70) 340-3016

Authorized officer

Nicol, B

# INTERNATIONAL SEARCH REPORT

International Application No.  
PCT/GB 03/05216

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	relevant to claim No.
A	GB 1 311 472 A (RASMUSSEN AS E) 28 March 1973 (1973-03-28 ) .....	

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

TCT/GB 03/05216

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
us 3547301 A	15-12-1970	DE 1908330 A1 ES 363817 A1 FR 2002314 A5 GB NL 6902437 1214055 A A	22-01-1970 16-12-1970 17-10-1969  02-12-1970 25-08-1969
US 4079689 A	21-03-1978	ES 439283 A1 BE 844025 A1 CA 7604411 A DE 2630689 1068100 A1 A1  FR GB 2817150 1498778 A1 A IT 1067363 B NL 7607403 A NO 762404 A ,B, PL 107673 B1 SE 7607794 A su 822749 A3 YU 168376 A1	01-03-1977 03-11-1976 31-01-1978 20-01-1977 10-07-1979  04-02-1977 25-01-1978 16-03-1985 12-01-1977 11-01-1977 29-02-1980 u-04-1977 15-04-1981 31-10-1982
FR 2710310 A	31-03-1995	FR 2710310 A1	31-03-1995
US 4288654 A	08-09' 1981	SE 424359 B BE 882379 A1 CA 1143671 A1 DE 3010279 A1 DK 257880 A ,B, FI 800790 A ,B, GB 2058279 A ,B, NL 8002145 A NO 801274 A ,B, SE 7907400 A	12-07-1982 16-07-1980 29-03-1983 02-04-1981 06-03-1981 06-03-1981 08-04-1981 09-03-1981 06-03-1981 06-03-1981
us 3410313 A	12-11-1968	NONE	
GB 1311472 A	28-03-1973	CA 988599 A1 DE 2012558 A1 DE 2012768 A1 DK 10083 A DK 156846 B FR 2038994 A5 FR 2035035 A5 NL 7003884 A NL 7003885 A ,B, NL 8105598 A ,B, SE 397886 B SE 364100 B SE 435104 B SE 7706514 A	04-05-1976 24-09-1970 08-10-1970 12-01-1983 09-10-1989 08-01-1971 18-12-1970 22-09-1970 22-09-1970 01-03-1982 21-11-1977 11-02-1974 03-09-1984 03-06-1977